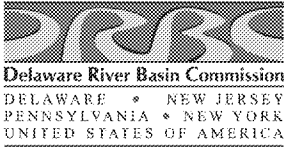
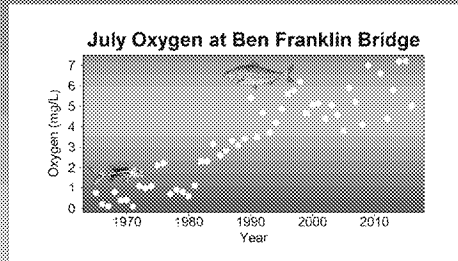


DO Early Action Workgroup



Delaware River Basin Commission
DELAWARE • NEW JERSEY
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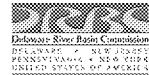
DO Partnership Meeting
October 7, 2019

This presentation

1. Resolution 2017-4 and the DO Early Action Workgroup
2. Brief status of the larger project
3. Brief update on Nutrient Criteria Plan (G&H requested)
4. Answer questions

DO Early Action Workgroup Participants

Organization	Name
NJDEP	Frank Klapinski
	Stan Cache
	Stephen Seeberger
PADEP	Pravin Patel
	Thomas Magge
DNREC	Anthony Hummel
	John Rebar
EPA	K.L. Lai
	Walter Higgins
DRBC (support)	John Yagecic
	Namsoo Suk



DO Early Action Workgroup

8. Early actions to reduce oxygen depleting discharges. The Commission further directs the Executive Director to convene a workgroup consisting of state and federal coregulators to identify and encourage the implementation of practicable early actions that can be implemented by NPDES permittees in the near term to reduce the loading of ammonia and other oxygen depleting pollutants to the Estuary. The Commission recommends that the early action initiatives be led, coordinated, and managed by the appropriate state agencies and be supported through technical assistance provided by EPA and that this initiative commence without delay.

Full Resolution at:

https://www.nj.gov/dhc/library/documents/Res017-04_EstuaryExtendingUse.pdf

DO Early Action Workgroup Activities

* January 18, 2018

- * Kickoff meeting

* March 28, 2018

- * Review discharge vs. capacity for Tier 1 WWTP facilities
- * Review existing studies on reducing effluent ammonia
- * Craft outreach to Tier 1 WWTP facilities

* June 2018

- * Letters to Tier 1 facilities for individual meetings

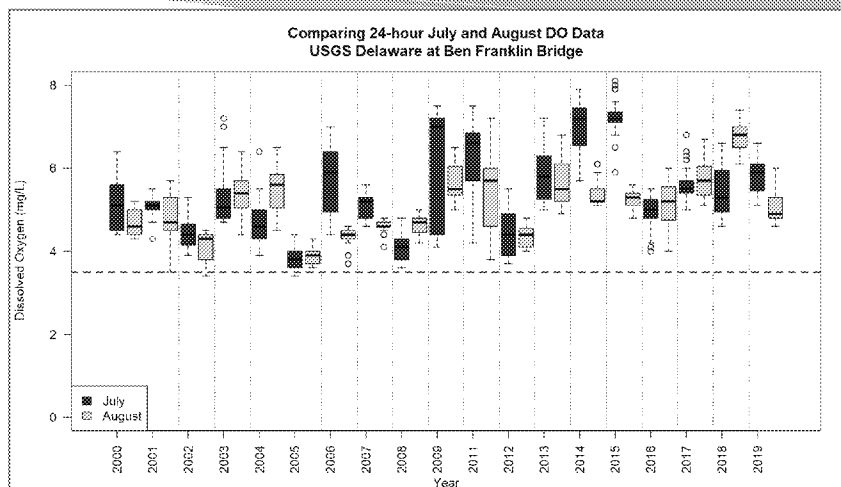
* Request to revise the approach to accomplish our mandate through the DO Partnership.

* Today

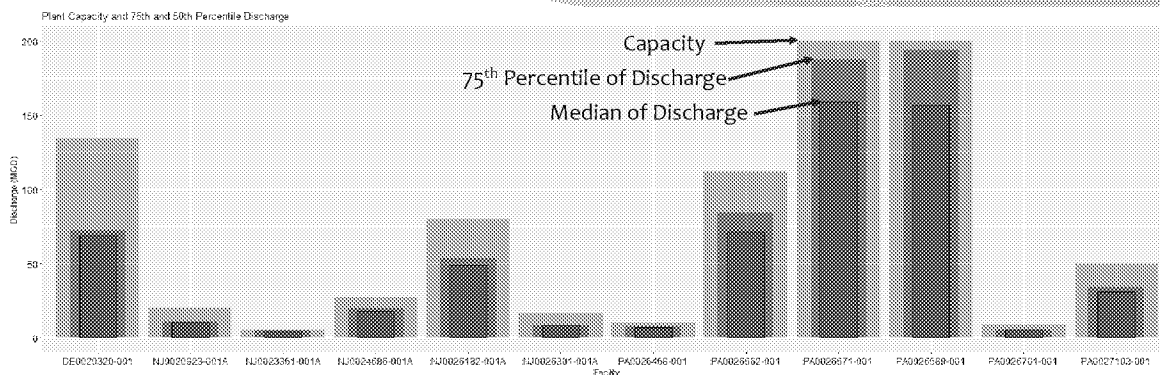
What we are asking for today

- * For Tier 1 facilities, consider what early actions could be taken to reduce discharge of ammonia, other oxygen depleting pollutants, in the interim
 - ◊ As described in Resolution 2017-4
 - ◊ Critical period for estuary dissolved oxygen is July-August (maybe September)
- * Have us back to a future DO Partnership meeting (~ 6 months) to follow up
- * DRBC is willing to partner - grant applications - data

Recent Summer DO at Ben Franklin Bridge



Plant Discharge versus Capacity



Presented to an advisory committee of the DRBC on March 29, 2018.
Contents should not be published or re-posted in whole or in part without
permission of DRBC.

The overall existing use / DO criteria project



- * Developing eutrophication model of Delaware Estuary - underway
- * Academy of Natural Sciences report on DO needs of estuary species - completed
 - * https://www.nj.gov/drbc/library/documents/Review_DOreq_KeySpecies_DelEstuary_ANStoDRBCrev2018.pdf
- * Engineering evaluation and planning level cost estimate for reduced ammonia & TN for Tier 1 facilities – underway, to be completed summer 2020
- * Evaluation of highest attainable use
- * Extensive monitoring by point dischargers
- * Extensive monitoring by DRBC
 - Tributary nutrients
 - Delaware at Trenton & Schuylkill at Philadelphia every other week
 - Light extinction
 - Primary productivity
 - Year-round ambient

Water Quality Advisory Committee



- * Overall coordination of the larger Existing Use / DO criteria project happens through DRBC's Water Quality Advisory Committee (WQAC)
- * All materials available at https://www.nj.gov/drbc/about/advisory/WQAC_index.html
- * Jay Cruz (PWD) and Bryan Lennon (Wilmington) are your **Regulated Community – Municipal** representatives
- * All meetings are public
- * My contact info John.Yagecic@drbc.gov 609-883-9500 x271
 - Get on the e-mail list, questions, past materials

Nutrient Criteria Plan

- * 2013 Plan
 - Finish DO criteria, then embark on new effort to develop TN and TP criteria
- * 2017 Draft Plan
 - Define TN and TP that support DO criteria. All (DO, TN, TP, ammonia toxics) in one push
- * September 30th WQAC meeting
 - Where are we now? Unclear
 - Next WQAC meeting November 14th

DO Early Action Workgroup

* Discussion & Questions?